

Standards for Ancient Life

Quick Reference

National Science Standards (National Academy of Sciences)

NS.K-4.1

NS.K-4.3

NS.K-4.4

NS.K-4.6

NS.5-8.3

NS5-8.4

Next Generation Science Standards (National Academy of Sciences)

NGSS-2-LS4-1

NGSS-2-ESS1-1

NGSS-3-LS3-2

NGSS-3-LS4-1

NGSS-4-ESS1-1

NGSS-MS-LS4-1

NGSS-MS-LS4-2

NGSS-MS-ESS1-4

NGSS-MS-ESS2-3

Common Core State Standards (National Governors Association and the Council of Chief State School Officers)

CCSS.ELA-Lit.SL: Speaking and Listening Standards

3rd grade: 3.1, 3.2

4th grade: 4.1, 4.2

5th grade: 5.1, 5.2

Detailed List

National Science Standards (National Academy of Sciences)

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| NS.K-4.1 | Science as Inquiry <ul style="list-style-type: none">• Understanding about scientific inquiry |
| NS.K-4.3 | Life Science <ul style="list-style-type: none">• Characteristics of organisms• Organisms and environments |
| NS.K-4.4 | Earth and Space Science <ul style="list-style-type: none">• Properties of earth materials• Changes in earth and sky |
| NS.K-4.6 | Science in Personal and Social Perspectives <ul style="list-style-type: none">• Changes in environments |
| NS.5-8.3 | Life Science <ul style="list-style-type: none">• Populations and ecosystems |
| NS5-8.4 | Earth and Space Science <ul style="list-style-type: none">• Earth's history |

Next Generation Science Standards (National Academy of Sciences)

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| NGSS-2-LS4-1 | Make observations of plants and animals to compare diversity of life in different habitats |
| NGSS-2-ESS1-1 | Use information from several sources to provide evidence that Earth events can occur quickly or slowly |
| NGSS-3-LS3-2 | Use evidence to support the explanation that traits can be influenced by the environment |
| NGSS-3-LS4-1 | Analyze and interpret data from fossils to provide evidence of the organisms and the environments in which they lived long ago |
| NGSS-4-ESS1-1 | Identify evidence from patterns in rock formations and fossils in rock layers to support an explanation for changes in a landscape over time |
| NGSS-MS-LS4-1 | Analyze and interpret data for patterns in the fossil record that document the existence, diversity, extinction, and change of life forms throughout the history of life on Earth under the assumption that natural laws operate today as in the past |
| NGSS-MS-LS4-2 | Apply scientific ideas to construct an explanation for the anatomical similarities and differences among modern organisms and between modern and fossil organisms to infer evolutionary relationships |

NGSS-MS-ESS1-4 Construct a scientific explanation based on evidence from rock strata for how the geologic time scale is used to organize Earth's 4.6-billion-year-old history

NGSS-MS-ESS2-3 Analyze and interpret data on the distribution of fossils and rocks, continental shapes, and seafloor structures to provide evidence of the past plate motions

Common Core State Standards (National Governors Association and the Council of Chief State School Officers)

CCSS.ELA-Lit.SL: Speaking and Listening Standards

3rd grade:

3.1: Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher led) with diverse partners on grade 3 topics and texts, building on others' ideas and expressing their own clearly.

- a. Come to discussions prepared having read or studied required material; explicitly draw on that preparation and other information known about the topic to explore ideas under discussion.
- b. Follow agreed-upon rules for discussions (e.g., gaining the floor in respectful ways, listening to others with care, speaking one at a time about topics and texts under discussion).
- c. Ask questions to check understanding of information presented, stay on topic, and link their comments to the remarks of others.
- d. Explain their own ideas and understanding in light of the discussion.

3.2: Determine the main ideas and supporting details of a text read aloud or information presented in diverse media and formats, including visually, quantitatively, and orally.

4th grade:

4.1: Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher led) with diverse partners on grade 4 topics and texts, building on others' ideas and expressing their own clearly.

- a. Come to discussions prepared having read or studied required material; explicitly draw on that preparation and other information known about the topic to explore ideas under discussion.
- b. Follow agreed-upon rules for discussions and carry out assigned roles.
- c. Pose and respond to specific questions to clarify or follow up on information, and make comments that contribute to the discussion and link to the remarks of others.
- d. Review the key ideas expressed and explain their own ideas and understanding in light of the discussion.

4.2: Paraphrase portions of a text read aloud or information presented in diverse media and formats, including visually, quantitatively, and orally.

5th grade:

5.1: Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade 5 topics and texts, building on others' ideas and expressing their own clearly.

- a. Come to discussions prepared, having read or studied required material; explicitly draw on that preparation and other information known about the topic to explore ideas under discussion.
- b. Follow agreed-upon rules for discussions and carry out assigned roles.
- c. Pose and respond to specific questions by making comments that contribute to the discussion and elaborate on the remarks of others.
- d. Review the key ideas expressed and draw conclusions in light of information and knowledge gained from the discussions.

5.2: Summarize a written text read aloud or information presented in diverse media and formats, including visually, quantitatively, and orally.

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